INDEX OF AUTHORS

ABE, Y., 82
Abramson, A. L., 832
Adkins, W. Y., 784
Alford, B. R., 249
Anson, B. J., 616
Arbulu, A., 825
Arenberg, I. K., 76
Arnold, G. E., 860
Arslan, M., 479
Ausband, J. R., 772

BAHRI, H. C., 856
Baker, D. C., Jr., 555, 840
Barton, R. T., 256
Bassi, N. K., 856
Bauberger-Tell, L., 72
Belamaric, J., 825
Bellucci, R. J., 659
Ben-Bassat, H., 438
Benitez, J. T., 262
Biller, H. F., 424
Birken, E. A., 268, 488
Black, F. O., 305, 876
Bluestone, C. D., 778
Boles, R., 611
Bone, R. C., 424
Brady, D., 632
Brookler, K. H., 268
Brubaker, J. D., 809
Bulger, R., 806
Burtner, D., 844

CALCATERRA, T. C., 501, 690
Carli, T., 114
Cauna, N., 41
Chandler, J. R., 648
Chapman, C. E., 455
Claussen, C. F., 417
Clerf, L. H., 599
Coats, A. C., 410
Cohen, S. R., 584
Cohn, A. M., 249
Cole, R., 323
Conley, J., 323
Cotton, R., 508
Cramer, D. B., 165
Crowley, D. E., 739
Crysdale, W. S., 87

DAVID, S., 72
Davis, S., 114
Dayal, V. S., 429
Delerme, A. N., 778
Devine, K. D., 514
Dodd, G. D., 591
Donaldson, J. A., 616
Duvall, A. J., III, 705

EGGER, D. T., 157
ElFiky, F. M., 352
Eliezer, N., 394

FEARON, B., 508
Feinmesser, M., 72
Forsen, R., 106
Fregley, A. R., 165
Fujiwara, K., 212
Fukuda, H., 532

GALLAGHER, J. C., 278
Gay, T., 401
Giffin, C. S., 799
Glasscock, M. E., III, 677
Glattke, T. J., 731
Goldman, J. L., 488
Gonzalez, G., 127
Goodman, M., 844
Graybiel, A., 165
Guedry, F. E., Jr., 165
Gussen, R., 235, 690

HAKANSSON, C. H., 212
Hands, C. F., 429
Harrison, D. F. N., 465
Hast, M. H., 524
Hawkins, D. B., 848
Hawkins, J. E., Jr., 179, 364
Hemenway, W. G., 305
Hilding, A. C., 422
Hinderer, K. H., 41
Hiraide, F., 632
Hirose, H., 401
Hogg, I. D., 860
Holinger, P. H., 538, 806, 809
Holt, G. P., 469
Honjo, S., 99

IGARASHI, M., 249
Irwin, T. M., 424

JACKSON, R. T., 82
Jako, G. J., 791
Jing, B., 591
Johnson, P. E., 772
Johnsson, L. G., 22, 179, 364

KARLAN, M. S., 696, 840
Karmody, C. S., 278
Khanna, S. M., 696
Kiang, N. Y. S., 714
King, M. E., 876
Kirchner, J. A., 59, 532
Krause, C. J., 496
Kuhn, F. A., 258

LA VENUTA, F., 132
Leonard, J. R., 469
Lev, A., 72
Lim, D. J., 2, 203
Lindsay, J. R., 331
Linthicum, F. H., Jr., 389, 433
Lord, I., 686
Lucente, F. E., 890, 891
Lutterbeck, E. F., 806

INDEX OF AUTHORS

ABE, Y., 82
Abramson, A. L., 832
Adkins, W. Y., 784
Alford, B. R., 249
Anson, B. J., 616
Arbulu, A., 825
Arenberg, I. K., 76
Arnold, G. E., 860
Arslan, M., 479
Ausband, J. R., 772

BAHRI, H. C., 856
Baker, D. C., Jr., 555, 840
Barton, R. T., 256
Bassi, N. K., 856
Bauberger-Tell, L., 72
Belamaric, J., 825
Bellucci, R. J., 659
Ben-Bassat, H., 438
Benitez, J. T., 262
Biller, H. F., 424
Birken, E. A., 268, 488
Black, F. O., 305, 876
Bluestone, C. D., 778
Boles, R., 611
Bone, R. C., 424
Brady, D., 632
Brookler, K. H., 268
Brubaker, J. D., 809
Bulger, R., 806
Burtner, D., 844

CALCATERRA, T. C., 501, 690
Carli, T., 114
Cauna, N., 41
Chandler, J. R., 648
Chapman, C. E., 455
Claussen, C. F., 417
Clerf, L. H., 599
Coats, A. C., 410
Cohen, S. R., 584
Cohn, A. M., 249
Cole, R., 323
Conley, J., 323
Cotton, R., 508
Cramer, D. B., 165
Crowley, D. E., 739
Crysdale, W. S., 87

DAVID, S., 72
Davis, S., 114
Dayal, V. S., 429
Delerme, A. N., 778
Devine, K. D., 514
Dodd, G. D., 591
Donaldson, J. A., 616
Duvall, A. J., III, 705

EGGER, D. T., 157
ElFiky, F. M., 352
Eliezer, N., 394

FEARON, B., 508
Feinmesser, M., 72
Forsen, R., 106
Fregley, A. R., 165
Fujiwara, K., 212
Fukuda, H., 532

GALLAGHER, J. C., 278
Gay, T., 401
Giffin, C. S., 799
Glasscock, M. E., III, 677
Glattke, T. J., 731
Goldman, J. L., 488
Gonzalez, G., 127
Goodman, M., 844
Graybiel, A., 165
Guedry, F. E., Jr., 165
Gussen, R., 235, 690

HAKANSSON, C. H., 212
Hands, C. F., 429
Harrison, D. F. N., 465
Hast, M. H., 524
Hawkins, D. B., 848
Hawkins, J. E., Jr., 179, 364
Hemenway, W. G., 305
Hilding, A. C., 422
Hinderer, K. H., 41
Hiraide, F., 632
Hirose, H., 401
Hogg, I. D., 860
Holinger, P. H., 538, 806, 809
Holt, G. P., 469
Honjo, S., 99

IGARASHI, M., 249
Irwin, T. M., 424

JACKSON, R. T., 82
Jako, G. J., 791
Jing, B., 591
Johnson, P. E., 772
Johnsson, L. G., 22, 179, 364

KARLAN, M. S., 696, 840
Karmody, C. S., 278
Khanna, S. M., 696
Kiang, N. Y. S., 714
King, M. E., 876
Kirchner, J. A., 59, 532
Krause, C. J., 496
Kuhn, F. A., 258

LA VENUTA, F., 132
Leonard, J. R., 469
Lev, A., 72
Lim, D. J., 2, 203
Lindsay, J. R., 331
Linthicum, F. H., Jr., 389, 433
Lord, I., 686
Lucente, F. E., 890, 891
Lutterbeck, E. F., 806

MAC KINNON, D. M., 194
Manzetti, G. W., 41
Maran, A. G., 469
Marlowe, F. I., 288
Marovitz, W. F., 76
Mathog, R. H., 871
Matz, G. J., 331, 871
Mawson, S. R., 686
Mazzoni, A., 13
McCabe, B. F., 496, 611
McHardy, G., 761
Melnick, W., 241
Miller, E. F., 165
Miller, N., 127
Mogi, G., 99
Molinari, G. A., 315
Montgomery, W., 844
Moore, J. A., 132
Morse, H. R., 812
Moxon, E. C., 714
Murakami, Y., 59
Myers, E., 323

NEEL, H. B., III, 514, 854
Nichols, R. D., 578
Norton, M. L., 825

ODA, M., 632
Ogura, J. H., 258
Olofsson, J., 284
Ono, J., 770
O'Rahilly, R., 520
Owens, E., 157

PALVA, T., 106
Paparella, M. M., 352, 632
Park, R., 848
Pennington, C. L., 546
Porubsky, E. S., 76
Proctor, L., 114
Pulec, J. L., 389, 664
Putney, F. J., 455

RAUNIO, V., 106
Roffman, J. D., 488
Rohatgi, M. S., 856
Rosenhall, U., 339, 882
Rudavsky, A. Z., 832

SADÉ, J., 394
Saito, R., 249
Samuelson, G. H., 778
Sanders, S. H., 566
Sando, I., 305
Saunders, W. H., 2
Savetsky, L., 555
Sawashima, M., 401
Schild, J. A., 538
Schindel, J., 438
Schlachta, I. v., 417
Schneider, R. A., 272
Schramm, V. L., 739
Schroeder, D. J., 218
Schwartz, H. E., 690
Schwartzman, J. A., 389
Seth, H. N., 230
Shapiro, M. T., 241
Shilling, B. B., 616
Shimada, T., 203
Silberman, H. D., 818
Silverstein, H., 106
Simmons, F. B., 731
Singh, D., 230
Singleton, G. T., 784, 876
Smith, C. R., 165
Smits, R. G., 496
Snyderman, S. C., 799
Sohmer, H., 72
Sooy, F. A., 157
Spector, G. J., 377
Stahle, J., 87
Stephens, C. B., 860
Stern, F., 501
Strome, M., 401
Strong, M. S., 791
Sutherland, C. R., 705
Swain, R. E., 739
Swanson, E. W., 41
Swanson, S. N., 739

THOMAS, J. R., 799
Tonndorf, J., 696
Toremalm, N. G., 212
Townsend, G. L., 514
Tucker, J. A., 520, 818

VAN NOSTRAND, A. W. P., 284
Vered, J., 394
VerMeulen, V., 241

WANG, C-I., 584
Ward, P. H., 501
Wasilewski, V., 127
Watanabe, T., 249
Whicker, J. H., 854
Williams, R. I., 558
Wolff, A. P., 258
Wortzman, G., 429

ZAJTCHUK, J. T., 331
Zak, F. G., 488

INDEX OF TITLES

ABNORMALITIES of Endolymphatic Sac System. R. Gussen, 235.

Abstracts, 147, 299, 447, 603, 747, 897.

Acidic Protein-Bound Carbohydrates in Endolymphatic Sac and Duct of Fetal, Neonatal and Adult Rats, and Adult Humans, Presence of. W. F. Marovitz, E. S. Porubsky and I. K. Arenberg, 76.

Acoustic Neurinoma, Disc Electrophoresis in. T. Palva, H. Silverstein, R. Forsen and V. Raunio, 106.

Acquired Cholesteatoma: Light and Electron Microscopic Observations. D. J. Lim and W. H. Saunders, 2.

Adenoid Cystic Carcinoma of Head and Neck, Radiographic Findings in. G. D. Dodd and B. S. Jing, 591.

Adenoma Oxyphilic of Larynx. R. T. Barton, 256.

Aging, Sensory and Neural Degeneration with, As Seen in Microdissections of Human Inner Ear. L. G. Johnsson and J. E. Hawkins, Jr., 179.

Aging, Vascular Changes in Human Inner Ear Associated with. L. G. Johnsson and J. E. Hawkins, Jr., 364.

Airway Obstruction Due to Vocal Cord Paralysis in Infants with Hydrocephalus and Meningomyelocele. C. D. Bluestone, A. N. Delerme and G. H. Samuelson, 778.

Allergic Laryngitis. R. I. Williams, 558.

Alterations of Inner Ear Mechanisms Resulting from Application of Sodium Chloride to Round Window Membrane. G. A. Molinari, 315.

Ampullares, Cristae in Man, Mapping of. U. Rosenhall, 882.

Amyloid Tumor of Larynx: Case Report with Electron Microscope Study. J. Schindel and H. Ben-Bassat, 438.

Analysis of Age-Related Changes in Electric Responses from Inner Ears of Rats. D. E. Crowley, V. L. Schramm, R. E. Swain and S. N. Swanson, 739.

Analysis of 115 Patients with Tumors of Submandibular Gland. J. Conley, E. Myers and R. Cole, 323.

Analysis of Thermal Vestibular Responses in Cat: A Preliminary Report. L. Proctor, T. Carli and S. Davis, 114.

Anaplastic Small Cell Carcinoma of Larynx: Case Report. J. Olofsson and A. W. P. van Nostrand, 284.

Anatomy, Surgical, of Chorda Tympani. B. J. Anson, J. A. Donaldson and B. B. Shilling, 616.

Anomalies of Inner Ear, in Dogs. M. Igarashi, B. R. Alford, R. Saito, A. M. Cohn and T. Watanabe, 249.

Anomalies, Theoretical, of Stapedial Artery. I. D. Hogg, C. B. Stephens and G. E. Arnold, 860.

Anosmia: Verification and Etiologies. R. A. Schneider, 272.

Artery, Internal Auditory Supply to Petrous Bone. A. Mazzoni, 13.

Auricular Malformations, Congenital: Indications, Contraindications, and Timing of Middle Ear Surgery. R. J. Bellucci, 659.

BILATERAL Vocal Cord Paralysis of Undetermined Etiology: Clinical Course and Outcome. H. B. Neel, III, G. L. Townsend and K. D. Devine, 514.

Biochemical Characterization of Middle Ear Effusions. J. Vered, N. Eliezer and J. Sadé, 394.

Blepharospasm, Essential, Surgical Treatment of. B. F. McCabe and R. Boles, 611.

Bone Conduction Response, Low Frequency, in Deaf Children, V. S. Dayal, G. Wortzman and C. F. Hands, 429.

CALORIC Habituation as a Treatment for Peripheral Vestibular Disorders. A Pilot Study. G. T. Singleton, M. E. King and F. O. Black, 876.

Canine Eustachian Tube, Surface Tension Lowering Substance of. E. A. Birken and K. H. Brookler, 268.

Carcinoma, Adenoid Cystic of Head and Neck, Radiographic Findings in. G. D. Dodd and B. S. Jing, 591.

Carcinoma, Anaplastic Small Cell, of Larynx: Case Report. J. Olofsson and A. W. P. van Nostrand, 284.

Carcinoma of Larynx: Analysis of 311 Cases Treated Surgically. F. J. Putney and C. E. Chapman, 455.

Carcinoma of Larynx and Laryngopharynx, High Dosage Preoperative Radiation and Surgery for. J. L. Goldman, F. G. Zak, J. D. Roffman and E. A. Birken, 488.

Carcinoma of Vocal Cord, Treatment by Vertical Hemilaryngectomy. J. R. Leonard, G. P. Holt and A. G. Maran, 469.

Cerebral Hemispheric Lesions: Electronystagmographic Alterations. J. T. Benitez, 262.

Changes in Respiratory Activity of Cricothyroid Muscle with Intrathoracic Interruption of Vagus Nerve. H. Fukuda and J. A. Kirchner, 532.

Cholesteatoma, Acquired: Light and Electron Microscopic Observations. D. J. Lim and W. H. Saunders, 2.

Chondrosarcoma of Nasopharynx. Report of Case with Follow-up of Ten Years. D. Singh and H. N. Seth, 230.

Chorda Tympani, Surgical Anatomy of. B. J. Anson, J. A. Donaldson and B. B. Shilling, 616.

Chronic Petrositis: Diagnosis and Treatment. M. E. Glasscock, III, 677.

Cochlea, Guinea Pig, Ultrasonic Irradiation of. W. S. Crysdale and J. Stahle, 87.

Cochlear Audiometry in Infants with Uncertain Diagnosis, Routine Use of. H. Sohmer, M. Feinmesser, L. Bauberger-Tell, A. Lev and S. David, 72.

Cochlear Blood Vessel Pattern in Human Fetus and Postnatal Vascular Involution. L. G. Johnsson, 22.

Cochlear Microphonics, Dual Origin of in Inner and Outer Hair Cells. M. S. Karlan, J. Tonndorf and S. M. Khanna, 696.

Cochlear Transport of Horseradish Peroxidase. A. J. Duvall, III and C. R. Sutherland, 705.

Combined Therapy of Oral and Pharyngeal Neoplasms, Complications Associated with. R. G. Smits, C. J. Krause and B. F. McCabe, 496.

Comparison of Electrical and Acoustical Stimulation of Cat Ear. F. B. Simmons and T. J. Glattke, 731.

Complications Associated with Combined Therapy of Oral and Pharyngeal Neoplasms. R. G. Smits, C. J. Krause and B. F. McCabe, 496.

Congenital Auricular Malformations: Indications, Contraindications, and Timing of Middle Ear Surgery. R. J. Bellucci, 659.

Congenital Myasthenia Gravis with Intermittent Invagination of the Posterior Tracheal Wall. P. E. Johnson and J. R. Ausband, 772.

Cricothyroid Muscle Changes in Respiratory Activity of, with Intrathoracic Interruption of Vagus Nerve. H. Fukuda and J. A. Kirchner, 532.

Cryosurgical Treatment of Juvenile Laryngeal Papillomatosis. An Eight Year Experience. G. T. Singleton and W. Y. Adkins, 784.

Cysts, Nasoalveolar. C. S. Karmody and J. C. Gallagher, 278.

DEAF Children, Low Frequency Bone Conduction Response in. V. S. Dayal, G. Wortzman and C. F. Hands, 429.

Decannulation Problems in Infants. D. C. Baker, Jr. and L. Savetsky, 555.

Dilemma of Delayed Radiation Injury of Larynx. T. C. Calcaterra, F. Stern and P. H. Ward, 501.

Disc Electrophoresis in Acoustic Neurinoma. T. Palva, H. Silverstein, R. Forsen and V. Raunio, 106.

Distribution of Ciliated Cells in Human Middle Ear: Electron and Light Microscopic Observations. T. Shimada and D. J. Lim, 203.

Diverticula, Pharyngoesophageal, Treatment of. C. S. Giffin, S. C. Snyderman and J. R. Thomas, 799.

Dual Origin of Cochlear Microphonics: Inner and Outer Hair Cells. M. S. Karlan, J. Tonndorf and S. M. Khanna, 696.

EAR, Cat, Comparison of Electrical and Acoustical Stimulation of. F. B. Simmons and T. J. Glattke, 731.

Ear, Inner, Alterations Resulting from Application of Sodium Chloride to Round Window Membrane. G. A. Molinari, 315.

Ear, Inner, Anomalies in Dogs. M. Igarashi, B. R. Alford, R. Saito, A. M. Cohn and T. Watanabe, 249.

Ear, Inner, Human, Sensory and Neural Degeneration with Aging as seen in Microdissections of. L. G. Johnsson and J. E. Hawkins, Jr., 179.

Ear, Inner, Human, Vascular Changes in, Associated with Aging. L. G. Johnsson and J. E. Hawkins, Jr., 364.

Ear, Inner, Involvement of in Acute Stem Cell Leukemia. Report of Two Cases. F. LaVenuta and J. A. Moore, 132.

Ear, Inner, Physiological Considerations in Artificial Stimulation of. N. Y. S. Kiang and E. C. Moxon, 714.

Ear, Inner, of Rats, Analysis of Age-Related Changes in Electric Responses. D. E. Crowley, V. L. Schramm, R. E. Swain and S. N. Swanson, 739.

Ear Involvement in Malignant Lymphoma. M. M. Paparella and F. M. ElFiky, 352.

Ear, Middle, Effusion: Analysis of Protein Components. G. Mogi and S. Honjo, 99.

Ear, Middle, Effusions, Biochemical Characterization of. J. Vered, N. Eliezer and J. Sadé, 394.

Ear, Middle, Human, Distribution of Ciliated Cells in: Electron and Light Microscopic Observations. T. Shimada and D. J. Lim, 203.

Ear, Uncommon Granulomatous Diseases of: Differential Diagnosis. J. A. Schwartzman, J. L. Pulec and F. H. Linthicum, Jr., 389.

Early Development of Human Laryngeal Muscles. M. H. Hast, 524.

Effects of Modulated Noise on Speech Intelligibility of People with Sensorineural Hearing Loss. M. T. Shapiro, W. Melnick and V. VerMeulen, 241.

Effusion, Middle Ear: Analysis of Protein Components. G. Mogi and S. Honjo, 99.

Effusions, Middle Ear, Biochemical Characterization of. J. Vered, N. Eliezer and J. Sadé, 394.

Elastic Cartilaginous Metaplasia of Vocal Cord Nodules. D. Burtner, M. Goodman and W. Montgomery, 844.

Electric Responses from Inner Ear of Rats, Analysis of Age-Related Changes in. D. E. Crowley, V. L. Schramm, R. E. Swain and S. N. Swanson, 739.

Electromyography of Intrinsic Laryngeal Muscles During Phonation. T. Gay, H. Hirose, M. Strome and M. Sawashima, 401.

Electron and Light Microscopic Observations, on Distribution of Ciliated Cells in Human Middle Ear. T. Shimada and D. J. Lim, 203.

Electronystagmographic Alterations in Cerebral Hemispheric Lesions. J. T. Benitez, 262.

Embryology of Human Larynx, Observations on. J. A. Tucker and R. O'Rahilly, 520.

Endobronchial Foreign Bodies, Use of Lung Scanning for Detection of. Clinical and Experimental Studies. A. L. Abramson and A. Z. Rudavsky, 832.

Endolymphatic Sac and Duct of Fetal, Neonatal and Adult Rats, and Adult Humans, Presence of Acidic Protein-Bound Carbohydrates in. W. F. Marovitz, E. S. Porubsky and I. K. Arenberg, 76.

Endolymphatic Sac System, Abnormalities of. R. Gussen, 235.

Esophagitis, Reflux. G. McHardy, 761.

Esterase Activity in Organ of Corti. G. J. Spector, 377.

Ethacrynic Acid, Ototoxic Effects of. R. H. Mathog and G. J. Matz, 871.

Etiologies and Verification of Anosmia. R. A. Schneider, 272.

Eustachian Tube, Canine, Surface Tension Lowering Substance of. E. A. Birken and K. K. Brookler, 268.

External Otitis, Malignant. Pathogenesis and Treatment of Facial Paralysis Due to. J. R. Chandler, 648.

External Trauma of Larynx and Trachea: Immediate Treatment and Management. C. L. Pennington, 546.

Extraparotid Disease Simulating Parotid Masses. R. D. Nichols, 578.

FACIAL Paralysis Due to Malignant External Otitis, Pathogenesis and Treatment of. J. R. Chandler, 648.

Fine Structure of Nasal Polyps. N. Cauna, K. H. Hinderer, G. W. Manzetti and E. W. Swanson, 41.

Foreign Bodies, Endobronchial, Use of Lung Scanning for Detection of. Clinical and Experimental Studies. A. L. Abramson and A. Z. Rudavsky, 832.

GALVANIC Body-Sway Test, Limit of Normal. A. C. Coats, 410.

Granulomatous Diseases of Ear, Uncommon: Differential Diagnosis. J. A. Schwartzman, J. L. Pulec and F. H. Linthicum, Jr., 389.

HAIR Cells, Inner and Outer: Dual Origin of Cochlear Microphonics. M. S. Karlan, J. Tonndorf and S. M. Khanna, 696.

Healing, Ossicular Joint: An Experimental Study. T. C. Calcaterra, R. Gussen and H. E. Schwartz, 690.

Hearing Loss, Sensorineural, Effects of Modulated Noise on Speech Intelligibility of People with. M. T. Shapiro, W. Melnick and V. VerMeulen, 241.

Hearing Loss, Sensorineural, in Otitis Media, Pathology of. M. M. Paparella, M. Oda, F. Hiraide and D. Brady, 632.

Hemangioma of Head and Neck in Children, Steroid Treatment of. S. R. Cohen and C. I. Wang, 584.

Hematologic Problems in Otolaryngology. F. E. Lucente, 891.

Hemifacial Spasm, Idiopathic: Pathogenesis and Surgical Treatment. J. L. Pulec, 664.

Hemilaryngectomy Vertical in Treatment of Vocal Cord Carcinoma. J. R. Leonard, G. P. Holt and A. G. Maran, 469.

Herpes Oticus, Temporal Bone Pathology in. J. T. Zajtchuk, G. J. Matz and J. R. Lindsay, 331.

High Dosage Preoperative Radiation and Surgery for Carcinoma of Larynx and Laryngopharynx. J. L. Goldman, F. G. Zak, J. D. Roffman and E. A. Birken, 488.

Homograft Tympanic Membrane in Myringoplasty. D. M. MacKinnon, 194.

Horseradish Peroxidase, Cochlear Transport of. A. J. Duvall, III and C. R. Sutherland, 705.

Human Fetus and Postnatal Vascular Involution, Cochlear Blood Vessel Pattern in. L. G. Johnsson, 22.

Hydrocephalus and Meningomyelocele in Infants, Airway Obstruction due to Vocal Cord Paralysis. C. D. Bluestone, A. N. Delerme and G. H. Samuelson, 778.

Hyperinflation Interstitial Rupture of the Lung. A. Arbulu, J. Belamaric and M. L. Norton, 825.

IDIOPATHIC Hemifacial Spasm: Pathogenesis and Surgical Treatment. J. L. Pulec, 664.

Idiopathic Progressive Vestibular Degeneration. A. Graybiel, C. R. Smith, F. E. Guedry, Jr., E. F. Miller, A. R. Fregley and D. B. Cramer, 165.

Infants, Decannulation Problems in. D. C. Baker, Jr. and L. Savetsky, 555.

Injuries, Pharyngeal, Laryngeal and Tracheal, in Pediatric Age Group. P. H. Holinger and J. A. Schild, 538.

Inner Ear Anomalies in Dogs. M. Igarashi, B. R. Alford, R. Saito, A. M. Cohn and T. Watanabe, 249.

Internal Auditory Artery Supply to Petrous Bone. A. Mazzoni, 13.

Internal Auditory Canal, Spatial Distribution of Vestibular Nerve in. I. Sando, F. O. Black and W. G. Hemenway, 305.

Intracranial Extension with Scleroma. H. C. Bahri, N. K. Bassi and M. S. Rohatgi, 856.

Intralaryngotracheal Thyroid. R. C. Bone, H. F. Biller and T. M. Irwin, 424.

Involvement of Inner Ear in Acute Stem Cell Leukemia: Report of Two Cases. F. LaVenuta and J. A. Moore, 132.

Irradiation, Ultrasonic, of Guinea Pig Cochlea. W. S. Crysdale and J. Stahle, 87.

JACKSON, Chevalier and Sir William Osler. J. Ono, 770.

Jacob DaSilva Solis-Cohen, M.D.: Pioneer Laryngologist. L. H. Clerf, 599.

KANAMYCIN, Progressive Neuro-Ototoxicity of. G. Gonzalez, N. Miller and V. Wasilewski, 127.

Kite Chart for Graphical Evaluation of Optokinetic Nystagmus. C. F. Claussen and I. v. Schlachta, 417.

LARYNGEAL Closure, Reflex, Mechanical and Physiological Properties of. Y. Murakami and J. A. Kirchner, 59.

Laryngeal Muscles, Human, Early Development of. M. H. Hast, 524.

Laryngeal Muscles, Intrinsic, Electromyography of During Phonation. T. Gay, H. Hirose, M. Strome and M. Sawashima, 401.

Laryngeal Papillomatosis, Juvenile, Cryosurgical Treatment of. An Eight Year Experience. G. T. Singleton and W. Y. Adkins, 784.

Laryngectomy, Reconstructive: Report on First 35 Cases. M. Arslan, 479.

Laryngitis, Allergic. R. I. Williams, 558.

Laryngolith. D. C. Baker, Jr. and M. S. Karlan, 840.

Laryngologist Pioneer: Jacob DaSilva Solis-Cohen, M.D. L. H. Clerf, 599.

Larynx, Amyloid Tumor of: Case Report with Electron Microscope Study. J. Schindel and H. Ben-Bassat, 438.

Larynx, Anaplastic Small Cell Carcinoma of: Case Report. J. Olofsson and A. W. P. van Nostrand, 284.

Larynx, Carcinoma of: Analysis of 311 Cases Treated Surgically. F. J. Putney and C. E. Chapman, 455.

Larynx, Delayed Radiation Injury of, Dilemma of. T. C. Calcaterra, F. Stern and P. H. Ward, 501.

Larynx, Human, Observations on Embryology of. J. A. Tucker and R. O'Rahilly, 520.

Larynx, Laser Surgery in. Early Clinical Experience with Continuous CO_2 Laser. M. S. Strong and G. J. Jako, 791.

Larynx, Oxyphilic Adenoma of. R. T. Barton, 256.

Larynx, Subglottic Stenosis of, Surgical Correction: Preliminary Report of Experimental Surgical Technique. B. Fearon and R. Cotton, 508.

Larynx, Xeroradiography of. P. H. Holinger, E. F. Lutterbeck and R. Bulger, 806.

Larynx and Trachea, External Trauma of: Immediate Treatment and Management. C. L. Pennington, 546.

Laser Surgery in the Larynx. Early Clinical Experience with Continuous CO_2 Laser. M. S. Strong and G. J. Jako, 791.

Leukemia, Stem Cell, Acute, Involvement of Inner Ear. Report of Two Cases. F. LaVenuta and J. A. Moore, 132.

Limit of Normal of Galvanic Body-Sway Test. A. C. Coats, 410.

Long-Term Canine Tracheal Stoma. J. H. Whicker and H. B. Neel III, 854.

Low Frequency Bone Conduction Response in Deaf Children. V. S. Dayal, G. Wortzman and C. F. Hands, 429.

Lung, Hyperinflation Interstitial Rupture of. A. Arbulu, J. Belamaric and M. L. Norton, 825.

Lymphoma, Malignant, Ear Involvement in. M. M. Paparella and F. M. ElFiky, 352.

MACULAR Mapping, Vestibular, in Man. U. Rosenhall, 339.

Malformations, Auricular, Congenital: Indications, Contraindications, and Timing of Middle Ear Surgery. R. J. Bellucci, 659.

Malignant Lymphoma, Ear Involvement in. M. M. Paparella and F. M. ElFiky, 352.

Management of Total Nasal Blockage by Polyps of Allergic and Infectious Origin. S. H. Sanders, 566.

Mapping of the Cristae Ampullares in Man. U. Rosenhall, 882.

McMahon, Bernard J., Obituary, 291.

Mechanical and Physiological Properties of Reflex Laryngeal Closure. Y. Murakami and J. A. Kirchner, 59.

Medical Problems in Otolaryngology. F. E. Lucente, 890.

Microspheres, Labeled, Use of to Determine Blood Flow in Dog's Nasal Mucosa. Y. Abe and R. T. Jackson, 82.

Middle Ear Effusion: Analysis of Protein Components. G. Mogi and S. Honjo, 99.

Middle Ear Surgery in Congenital Auricular Malformations: Indications, Contraindications and Timing of. R. J. Bellucci, 659.

Myasthenia Gravis, Congenital, with Intermittent Invagination of the Posterior Tracheal Wall. P. E. Johnson and J. R. Ausband, 772.

Myringoplasty, Homograft Tympanic Membrane in. D. M. MacKinnon, 194.

NASAL Blockage, Total, by Polyps of Allergic and Infectious Origin, Management of. S. H. Sanders, 566.

Nasal Mucosa, Dog, Use of Labeled Microspheres to Determine Blood Flow in. Y. Abe and R. T. Jackson, 82.

Nasal Polyps, Fine Structure of. N. Cauna, K. H. Hinderer, G. W. Manzetti and E. W. Swanson, 41.

Nasal Secretion, Human, Near-Normal, Simple Method for Collecting. A. C. Hilding, 422.

Nasoalveolar Cysts. C. S. Karmody and J. C. Gallagher, 278.

Nasopharynx, Chondrosarcoma of. Report of Case with Follow-up of Ten Years. D. Singh and H. N. Seth, 230.

Neoplasms, Oral and Pharyngeal, Complications Associated with Combined Therapy. R. G. Smits, C. J. Krause and B. F. McCabe, 496.

Neoplasms, Postcricoid and Cervical Esophageal: Role of Surgery in Management of. D. F. N. Harrison, 465.

Neurinoma, Acoustic, Disc Electrophoresis in. T. Palva, H. Silverstein, R. Forsen and V. Raunio, 106.

Neurinomas, Acoustic, Bilateral, Unusual Audiometric and Histologic Findings in. F. H. Linthicum, Jr., 433.

Neuro-Ototoxicity, Progressive, of Kanamycin. G. Gonzalez, N. Miller and V. Wasilewski, 127.

Nodules, Vocal Cord, Elastic Cartilaginous Metaplasia of. D. Burtner, M. Goodman and W. Montgomery, 844.

Nystagmus and Vertigo, Some Effects of Alcohol During Caloric and Optokinetic Stimulation. D. J. Schroeder, 218.

OBITUARY, Bernard J. McMahon, 291

Obituary, Georg von Békésy, 750

Observations on Embryology of Human Larynx. J. A. Tucker and R. O'Rahilly, 520.

Optokinetic Nystagmus, Kite Chart for Graphical Evaluation of. C. F. Claussen and I. v. Schlachta, 417.

Organ of Corti, Esterase Activity in. G. J. Spector, 377.

Osler, Sir William and Chevalier Jackson. J. Ono, 770.

Ossicular Joint Healing: An Experimental Study. T. C. Calcaterra, R. Gussen and H. E. Schwartz, 690.

Otitis Media, Sensorineural Hearing Loss in, Pathology of. M. M. Paparella, M. Oda, F. Hiraide and D. Brady, 632.

Otomastoiditis, Tuberculous, Primary. F. I. Marlowe, 288.

Ototoxic Effects of Ethacrynic Acid. R. H. Mathog and G. J. Matz, 871.

Oxyphilic Adenoma of Larynx. R. T. Barton, 256.

PAPILLOMATOSIS, Laryngeal, Juvenile, Cryosurgical Treatment of. An Eight Year Experience. G. T. Singleton and W. Y. Adkins, 784.

Parotid Masses, Extraparotid Disease Simulating. R. D. Nichols, 578.

Pathogenesis and Treatment of Facial Paralysis Due to Malignant External Otitis. J. R. Chandler, 648.

Pathology of Sensorineural Hearing Loss in Otitis Media. M. M. Paparella, M. Oda, F. Hiraide and D. Brady, 632.

Pathology of Temporal Bone in Herpes Oticus. J. T. Zajtchuk, G. J. Matz and J. R. Lindsay, 331.

Pediatric Age Group Injuries, Pharyngeal, Laryngeal and Tracheal. P. H. Holinger and J. A. Schild, 538.

Pediatrics, Tracheotomy in. J. A. Tucker and H. D. Silberman, 818.

Perforations, Pharyngeal-Esophageal, Associated with Rapid Oral Endotracheal Intubation. A. P. Wolff, F. A. Kuhn and J. H. Ogura, 258.

Petrositis, Chronic: Diagnosis and Treatment. M. E. Glasscock, III, 677.

Petrous Bone, Internal Auditory Artery Supply to. A. Mazzoni, 13.

Pharyngeal-Esophageal Perforations Associated with Rapid Oral Endotracheal Intubation. A. P. Wolff, F. A. Kuhn and J. H. Ogura, 258.

Pharyngeal, Laryngeal and Tracheal Injuries in Pediatric Age Group. P. H. Holinger and J. A. Schild, 538.

Pharyngoesophageal Diverticula, Treatment of. C. S. Giffin, S. C. Snyderman and J. R. Thomas, 799.

Pharynx and Neck, Teratoma of. D. B. Hawkins and R. Park, 848.

Phonation, Electromyography of Intrinsic Laryngeal Muscles During. T. Gay, H. Hirose, M. Strome and M. Sawashima, 401.

Photography, Still and Motion Picture, of Tracheobronchial Tree and Esophagus Through Endoscopic Telescopes. P. H. Holinger and J. D. Brubaker, 809.

Physiological Considerations in Artificial Stimulation of Inner Ear. N. Y. S. Kiang and E. C. Moxon, 714.

Physiology of Trachea, Studies on: VI. Interaction Between Ciliary Beat Frequency and Transport of Secretions. K. Fujiwara, C. H. Hakansson and N. G. Toremalm, 212.

Polyps of Allergic and Infectious Origin in Total Nasal Blockage, Management of. S. H. Sanders, 566.

Polyps, Nasal, Fine Structure of. N. Cauna, K. H. Hinderer, G. W. Manzetti and E. W. Swanson, 41.

Postcricoid and Cervical Esophageal Neoplasms, Role of Surgery in Management. D. F. N. Harrison, 465.

Postnatal Vascular Involution and Cochlear Blood Vessel Pattern in Human Fetus. L. G. Johnsson, 22.

Presence of Acidic Protein-Bound Carbohydrates in Endolymphatic Sac and Duct of Fetal, Neonatal and Adult Rats, and Adult Humans. W. F. Marovitz, E. S. Porubsky and I. K. Arenberg, 76.

Primary Tuberculous Otomastoiditis. F. I. Marlowe, 288.

Progressive Neuro-Ototoxicity of Kanamycin. G. Gonzalez, N. Miller and V. Wasilewski, 127.

Protein Components, Analysis of in Middle Ear Effusion. G. Mogi and S. Honjo, 99.

RADIATION Preoperative High Dosage, and Surgery for Carcinoma of Larynx and Laryngopharynx. J. L. Goldman, F. G. Zak, J. D. Roffman and E. A. Birken, 488.

Radiographic Findings in Adenoid Cystic Carcinoma of Head and Neck. G. D. Dodd and B. S. Jing, 591.

Reconstructive Laryngectomy: Report on First 35 Cases. M. Arslan, 479.

Reflex Laryngeal Closure, Mechanical and Physiological Properties of. Y Murakami and J. A. Kirchner, 59.

Reflux Esophagitis. G. McHardy, 761.

Role of Surgery in Management of Postcricoid and Cervical Esophageal Neoplasms. D. F. N. Harrison, 465.

Round Window Membrane: Alterations of Inner Ear Mechanisms Resulting from Application of Sodium Chloride to. G. A. Molinari, 315.

Routine Use of Cochlear Audiometry in Infants with Uncertain Diagnosis. H. Sohmer, M. Feinmesser, L. Bauberger-Tell, A. Lev and S. David, 72.

SCLEROMA with Intracranial Extension. H. C. Bahri, N. K. Bassi and M. S. Rohatgi, 856.

Sensorineural Hearing Loss in Otitis Media, Pathology of. M. M. Paparella, M. Oda, F. Hiraide and D. Brady, 632.

Sensory and Neural Degeneration with Aging, As Seen in Microdissections of Human Inner Ear. L. G. Johnsson and J. E. Hawkins, Jr., 179.

Simple Method for Collecting Near-Normal Human Nasal Secretion. A. C. Hilding, 422.

Sir William Osler and Chevalier Jackson. J. Ono, 770.

Some Effects of Alcohol on Nystagmus and Vertigo During Caloric and Optokinetic Stimulation. D. J. Schroeder, 218.

Spatial Distribution of Vestibular Nerve in Internal Auditory Canal. I. Sando, F. O. Black and W. G. Hemenway, 305.

Speech Discrimination ad Stapedectomy. E. Owens, F. A. Sooy and D. T. Egger, 157.

Speech Intelligibility of People with Sensorineural Hearing Loss, Effects of Modulated Noise. M. T. Shapiro, W. Melnick and V. VerMeulen, 241.

Stapedectomy and Speech Discrimination. E. Owens, F. A. Sooy and D. T. Egger, 157.

Stapedial Artery, Theoretical Anomalies of. I. D. Hogg, C. B. Stephens and G. E. Arnold, 860.

Steroid Treatment of Hemangioma of Head and Neck in Children. S. R. Cohen and C. I. Wang, 584.

Still and Motion Picture Photography of the Tracheobronchial Tree and Esophagus Through Endoscopic Telescopes. P. H. Holinger and J. D. Brubaker, 809.

Stimulation, Electrical and Acoustical, Comparison of in Cat Ear. F. B. Simmons and T. J. Glattke, 731.

Stoma, Tracheal, Canine, Long-Term. J. H. Whicker and H. B. Neel III, 854.

Studies on Physiology of Trachea: VI. Interaction Between Ciliary Beat Frequency and Transport of Secretions. K. Fujiwara, C. H. Hakansson and N. G. Toremalm, 212.

Subglottic Stenosis of Larynx, Surgical Correction of: Preliminary Report of Experimental Surgical Technique. B. Fearon and R. Cotton, 508.

Submandibular Gland Tumors, Analysis of 115 Patients. J. Conley, E. Myers and R. Cole, 323.

Surface Tension Lowering Substance of Canine Eustachian Tube. E. A. Birken and K. H. Brookler, 268.

Surgical Anatomy of Chorda Tympani. B. J. Anson, J. A. Donaldson and B. B. Shilling, 616.

Surgical Correction of Subglottic Stenosis of Larynx: Preliminary Report of Experimental Surgical Technique. B. Fearon and R. Cotton, 508.

Surgical Treatment of Essential Blepharospasm. B. F. McCabe and R. Boles, 611.

TEMPORAL Bone Pathology in Herpes Oticus. J. T. Zajtchuk, G. J. Matz and J. R. Lindsay, 331.

Teratoma of the Pharynx and Neck. D. B. Hawkins and R. Park, 848.

Theoretical Anomalies of the Stapedial Artery. I. D. Hogg, C. B. Stephens and G. E. Arnold, 860.

Thermal Vestibular Responses in Cat, Analysis of: A Preliminary Report. L. Proctor, T. Carli and S. Davis, 114.

Thyroid, Intralaryngotracheal. R. C. Bone, H. F. Biller and T. M. Irwin, 424.

Trachea, Studies on Physiology of: VI. Interaction Between Ciliary Beat Frequency and Transport of Secretions. K. Fujiwara, C. H. Hakansson and N. G. Toremalm, 212.

Tracheal Stoma, Canine, Long-Term. J. H. Whicker and H. B. Neel III, 854.

Tracheal Wall, Posterior, Intermittent Invagination of, with Congenital Myasthenia Gravis. P. E. Johnson and J. R. Ausband, 772.

Tracheobronchial Obstruction, Unusual Causes of. H. R. Morse, 812.

Tracheobronchial Tree and Esophagus, Still and Motion Picture Photography Through Endoscopic Telescopes. P. H. Holinger and J. D. Brubaker, 809.

Tracheotomy in Pediatrics. J. A. Tucker and H. D. Silberman, 818.

Treatment of Pharyngoesophageal Diverticula. C. S. Giffin, S. C. Snyderman and J. R. Thomas, 799.

Treatment of Vocal Cord Carcinoma by Vertical Hemilaryngectomy. J. R. Leonard, G. P. Holt and A. G. Maran, 469.

Tuberculous Otomastoiditis, Primary. F. I. Marlowe, 288.

Tumors of Submandibular Gland, Analysis of 115 Patients. J. Conley, E. Myers and R. Cole, 323.

Tympanic Membrane Homograft in Myringoplasty. D. M. MacKinnon, 194.

Tympanoplasty in Britain. S. R. Mawson and I. Lord, 686.

ULTRASONIC Irradiation of Guinea Pig Cochlea. W. S. Crysdale and J. Stahle, 87.

Uncommon Granulomatous Diseases of Ear: Differential Diagnosis. J. A. Schwartzman, J. L. Pulec and F. H. Linthicum, Jr., 389.

Unusual Audiometric and Histologic Findings in Bilateral Acoustic Neurinomas. F. H. Linthicum, Jr., 433.

Unusual Causes of Tracheobronchial Obstruction. H. R. Morse, 812.

Use of Labeled Microspheres to Determine Blood Flow in Dog's Nasal Mucosa. Y. Abe and R. T. Jackson, 82.

Use of Lung Scanning for the Detection of Endobronchial Foreign Bodies. Clinical and Experimental Studies. A. L. Abramson and A. Z. Rudavsky, 832.

VAGUS Nerve, Intrathoracic Interruption of and Changes in Respiratory Activity of Cricothyroid Muscle. H. Fukuda and J. A. Kirchner, 532.

Vascular Changes in Human Inner Ear Associated with Aging. L. G. Johnsson and J. E. Hawkins, Jr., 364.

Vestibular Degeneration, Idiopathic, Progressive. A. Graybiel, C. R. Smith, F. E. Guedry, Jr., E. F. Miller, A. R. Fregley and D. B. Cramer, 165.

Vestibular Disorders, Peripheral, Caloric Habituation as a Treatment for. A Pilot Study. G. T. Singleton, M. E. King and F. O. Black, 876.

Vestibular Macular Mapping in Man. U. Rosenhall, 339.

Vestibular Nerve in Internal Auditory Canal, Spatial Distribution of. I. Sando, F. O. Black and W. G. Hemenway, 305.

Vestibular Responses, Thermal, in Cat, Analysis of: A Preliminary Report. L. Proctor, T. Carli and S. Davis, 114.

Vocal Cord Carcinoma, Treatment by Vertical Hemilaryngectomy. J. R. Leonard, G. P. Holt and A. G. Maran, 469.

Vocal Cord Nodules, Elastic Cartilaginous Metaplasia of. D. Burtner, M. Goodman and W. Montgomery, 844.

Vocal Cord Paralysis, Bilateral, of Undetermined Etiology: Clinical Course and Outcome. H. B. Neel, III, G. L. Townsend and K. D. Devine, 514.

Vocal Cord Paralysis in Infants with Hydrocephalus and Meningomyelocele, Airway Obstruction Due to. C. D. Bluestone, A. N. Delerme and G. H. Samuelson, 778.

von Békésy, Georg, Obituary, 750.

XERORADIOGRAPHY of the Larynx. P. H. Holinger, E. F. Lutterbeck and R. Bulger, 806.